Threat Response to US Target Profiles- an I

Trends in Warfare…..

Constants

Nuclear Deterrence **Conventional Deterrence** **Fight, W**

Trends and Implications

Legacy Force ..Cold War

- Bipolar World, superpower Confrontation, proxy wars
- Collective Defenses, Forward Deployed
- Strategic Systems, Technology Focused
- State-based Adversaries
- Classic Threats to Security
- Attrition-oriented Operations
- Robust Air Forces
- Nuclear Deterrent

Conventional Force..Post Cold Wa

- Multipolar World, no peer U.S. Competitor
- Regional Ethnic Conflict Stability Operations
- High-tech, low tech conflicts People vs Systems
- Asymmetric Responses
- Engagement Presence and Proje…
- New Complex Threats
- Casualty Adverse, Non-lethal
- Chemical Deterrent

Implications for the Future Fo

- No single “nature of future war”
- Greater Multinational Cooperation
- New Concepts for use of Military Power
- Increased Optempo
- More Deployments
- Restrictions on Use of Force
- Greater Peacetime Interaction
- Implied Use Deterrent

…..Lead to changes in U.S. Targeting Pr

Historic U.S. Targeting Profiles

Legacy Force ..Cold War

- Fixed Facilities
- GDP/Linear Defense
- Prepositioned Logistics
- Forward Deployed Heavy Forces
- Large Air Force
- Analog Communications
- Nuclear Weapons

A leap ahead

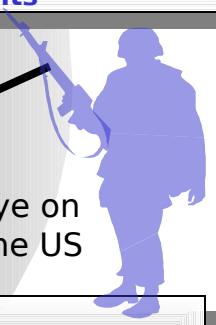
A shift in the

Operational Paradigm

Conventional Force..Post Cold War

- Force Projection
- Dominant Air Force
- Advanced Precision
- Heavy/Light Forces
- Helicopter Deep Attacks
- Analog Communications
- Heavy Logistics Requirements

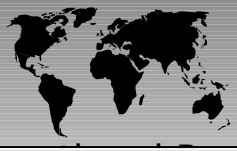
Prepared for a regional fight



With an eye on Fighting the US

an *"adaptive"* Threat

A shift in the



Cold War

- Echeloned Attack and Defense
- Mass and Combined Arms
- Massive Air operation
- Deep Strikes
- Nuclear Weapons

Maintain Regional Parity or Dominance
Within Military Capabilities
Technology Advancement and Acquisition

Post Cold War

- Neutralize Technological Overmatch
- Adaptive
- Decentralized and Distributed Operations
- Threat of Chemical Warfare
- Reliance on Paramilitary and Unconventional Forces
- Perceptions of Advanced Capabilities

A paradigm shift in U.S. targeting profiles creates a corresponding shift in the operational capabilities and techniques of the threat.

An Emerging Glimpse of the Future

Future U.S. Profile

Must Have Full Spectrum Dominance

Global Maneuver
-Initial Entry Force
Medium/Light forces
Dominant Air Force
Increased Reconnaissance
Capability
Agility
Offensive
Situational Awareness
Digitized Battlefield
Precision Targeting
Increased Lethality
Self sustaining..less log tail
Risk Adverse
Sensitive to World Opinion

A shift in the

Operational Paradigm To Counter
US Systems And Doctrine

Rapid unconstrained process
Analyze METT-T
Apply Lessons learned
Non-linear process
Acquisition vs Development

Threat Implications

Prevent Air Superiority
- Integrated Air Defense
- Passive and Active
- Long range attack
- Deny Theater basing

Eliminate Stand-Off Capability
- Dispersed Battlefield
- Paramilitary Forces
- Hugging Doctrine
- Adverse weather Operations
- Mobile systems

Entry Denial Operations
Target
- SPODs/APODs
- Forward Operating Airfields
- Staging Areas

Long Range Surveillance
- UAV
- SOF

Eliminate Digitized battlefield
- EMP
- GPS Jamming

Information Operations
- US National Will
- CNN
- WMD/E

Threat Response

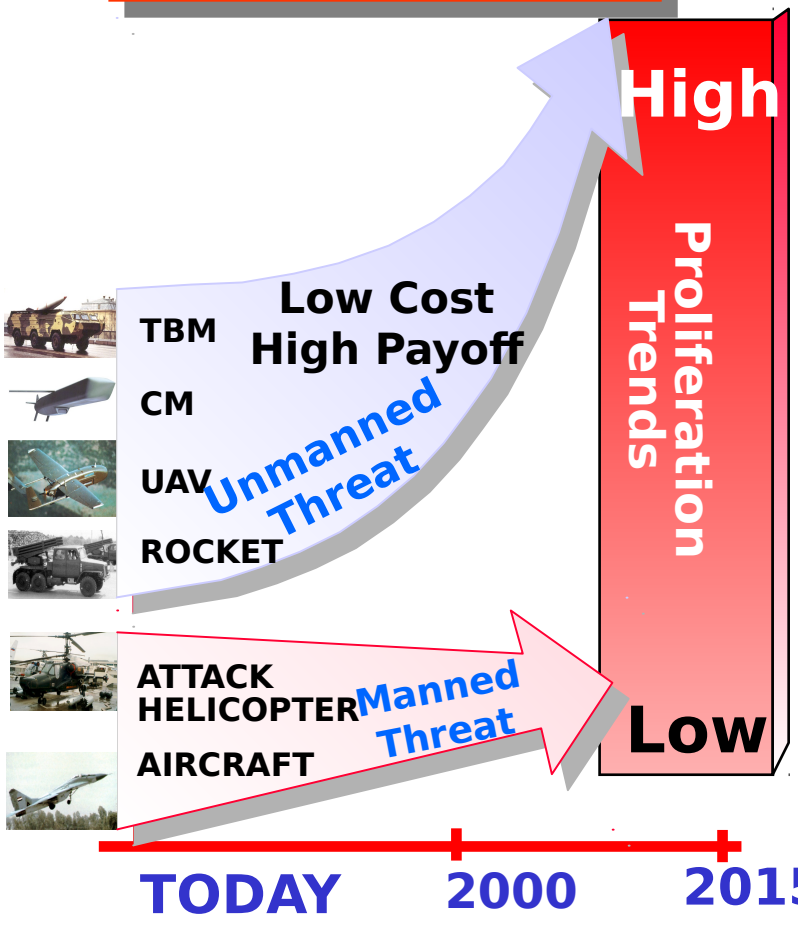
Theater APOE/-SPOE Denial	LACM, TBM SRBM, Rockets UAV SOF
US APOD/-SPOD Denial	Terrorism Implied use of WMD/E Influence National Will
Deny USAF Operations	LACM, TBM SRBM, UAV SOF, Terrorism
Locate IEF Recon Validate Template	UAV Fixed Wing Rotary Wing
IEF Anti-Access	Fixed Wing, Rotary Wing Attack UAV, Artillery, Rockets, Conv Maneuver Assymetric Warfare Implied Use of WMD/E Eliminate Digitized Battlefiel
Follow- on Force Fight	Sanctuary Operations Preserve Force IO Operations Eliminate Digitized Battlefiel

"...The conduct of war branches out in almost all directions and has no li
Clausewitz, On War

FIRST TO FIRE

AIR AND MISSILE THREAT (U)

CHANGING THREAT



WHY IT'S CHANGING

Applying Lessons Learned… Adoptive and Adaptive

Emerging ADA Capabilities

Emerging ADA Strategies

GIVEN $70M, ANY ADVERSARY COULD BUY…

INCREASING RISK TO CONTINGENCY FORCES

EVOLUTION CHARACTERIZED BY PROLIFERATION OF LOW COST, UNMANNED WEAPONS

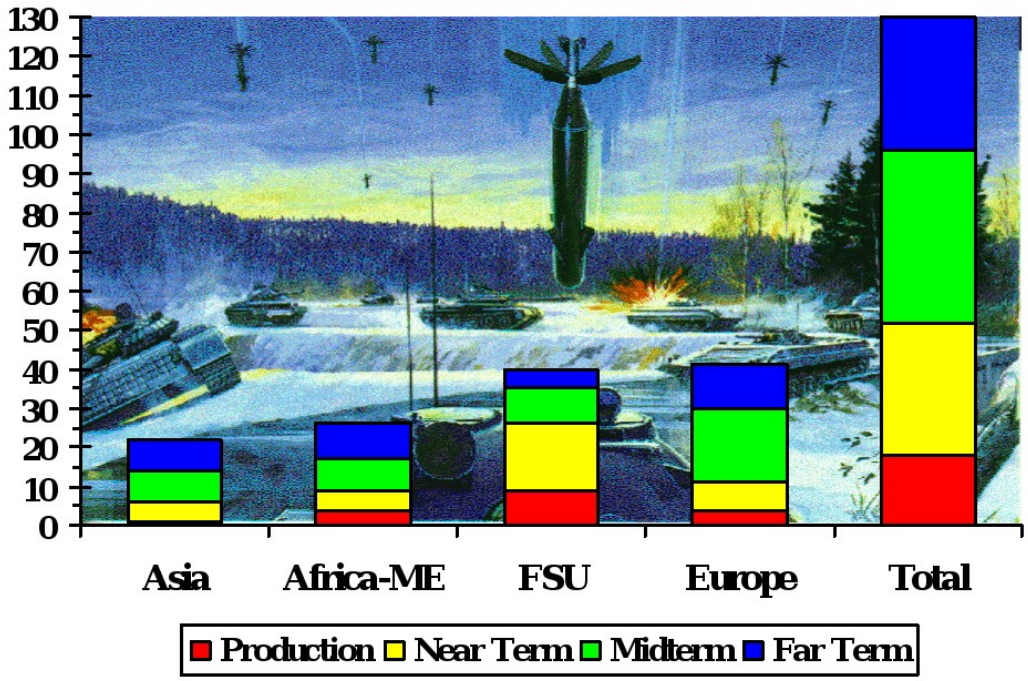
FIRST TO FIRE

MRL PROLIFERATION

The Poor Man's TBM

MRLs Provide Capability To Deliver Long Range Precision Munitions without TBMs

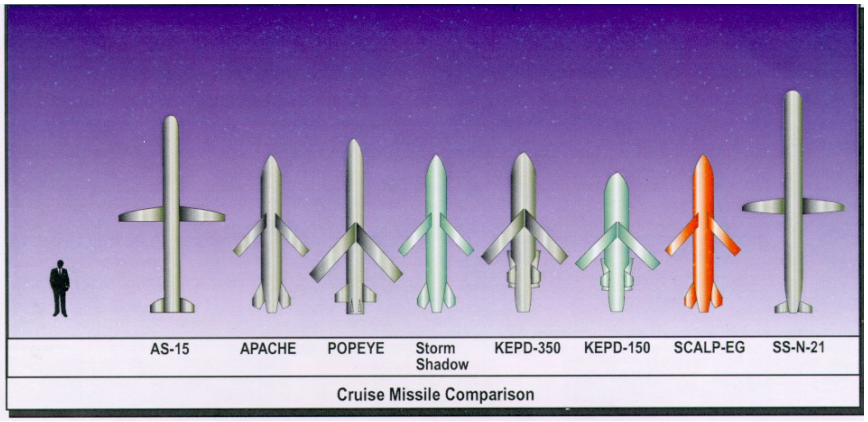
- LASER GUIDED PROJECTILES PROLIFERATING RAPIDLY
- POOR COUNTRIES UNEXPECTEDLY BUYING ADHPM
- FOUR NEW SENSOR FUZED MUNITIONS IN PRODUCTION
- COURSE CORRECTED MUNITIONS VERY ACTIVE
- SEVERAL TERMINALLY HOMING MUNITIONS BEING TESTED
- SUBSTANTIAL USE OF ADHPM IN COMBAT IMMINENT

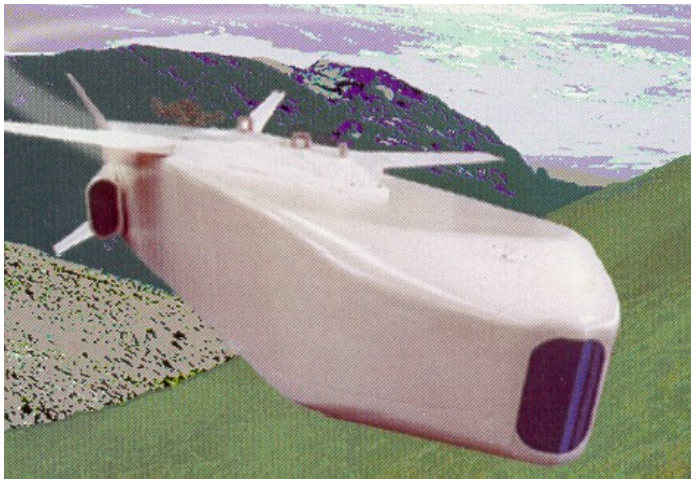


FIRST TO FIRE

Land Attack Cruise Missile Trends

- SMALLER SIZE
- INCREASED RANGE
- LOWER ALTITUDE FLIGHT
- IMPROVED ACCURACY
- FUTURE USE OF SMART SUBMUNITIONS
- POSSIBLE INCORPORATION OF COUNTERMEASURES





- Serious theater-level threat possible before 2005
  - At least 11 countries now developing LACMs
  - Majority of systems are subsonic
  - Simple LACMs could emerge quickly (Maybe Not)
  - Antiship cruise missile (ASCM) and UAV conversion

ACMS CAN STRIKE TARGETS ACROSS THE THEATER OF OPERATIONS

FIRST TO FIRE

Aircraft Trends

- ***Increased Use Of PGMs/Cruise Missiles***
- ***Increased Stand-off Range***
- ***Reduced Radar Cross Section***
- ***Increased Aircraft Survivability***
- ***Increased Multirole Variants***

AIRCRAFT STILL REPRESENT A LETHAL THREAT..

But value diminishes in a mature theater

FIRST TO FIRE

Helicopter Trends

- Increased Stand-off Range
- Improved Accuracy
- Better Night & Adverse Weather Capability
- Improved Aircraft Survivability Systems
- Improved IR Signature Reduction Technology

Attack Helicopters Are A Dangerous Threat To The Maneuver Force

FIRST TO FIRE

QUESTIONS?